

L Number	Hits	Search Text	DB	Time stamp
1	136312	hierarch\$4 tree	USPAT; US-PGPUB; IBM TDB	2004/05/25 10:58
2	11898	(hierarch\$4 tree) same class\$7	USPAT; US-PGPUB; IBM TDB	2004/05/25 10:39
3	765	((hierarch\$4 tree) same class\$7) same imag\$4	USPAT; US-PGPUB; IBM TDB	2004/05/25 10:25
4	261	((((hierarch\$4 tree) same class\$7) same imag\$4) same object	USPAT; US-PGPUB; IBM TDB	2004/05/25 10:27
5	28	(((hierarch\$4 tree) same class\$7) same imag\$4) same object) same attribute	USPAT; US-PGPUB; IBM TDB	2004/05/25 10:28
6	5238	(hierarch\$4 tree) same (lower same upper)	USPAT; US-PGPUB; IBM TDB	2004/05/25 10:58
7	147	((hierarch\$4 tree) same (lower same upper)) same replac\$4	USPAT; US-PGPUB; IBM TDB	2004/05/25 10:58
8	2	((((hierarch\$4 tree) same (lower same upper)) same replac\$4) same rank	USPAT; US-PGPUB; IBM TDB	2004/05/25 10:59
9	1862	(hierarch\$4 tree) same rank\$4	USPAT; US-PGPUB; IBM TDB	2004/05/25 11:00
10	281	((hierarch\$4 tree) same rank\$4) same (succ\$5 replac\$4 chang\$4)	USPAT; US-PGPUB; IBM TDB	2004/05/25 11:00
11	123	((((hierarch\$4 tree) same rank\$4) same (succ\$5 replac\$4 chang\$4)) same low\$4	USPAT; US-PGPUB; IBM TDB	2004/05/25 11:01
12	39	(((hierarch\$4 tree) same rank\$4) same (succ\$5 replac\$4 chang\$4)) same low\$4) same high\$4	USPAT; US-PGPUB; IBM TDB	2004/05/25 11:01
13	129	((((hierarch\$4 tree) same rank\$4) same (succ\$5 replac\$4 chang\$4)) same (low\$4 down\$4)	USPAT; US-PGPUB; IBM TDB	2004/05/25 11:01
14	45	(((hierarch\$4 tree) same rank\$4) same (succ\$5 replac\$4 chang\$4)) same (low\$4 down\$4) same (high\$4 upp\$4)	USPAT; US-PGPUB; IBM TDB	2004/05/25 11:04
15	6	((((hierarch\$4 tree) same rank\$4) same (succ\$5 replac\$4 chang\$4)) same (low\$4 down\$4)) same (high\$4 upp\$4)) same imag\$4	USPAT; US-PGPUB; IBM TDB	2004/05/25 11:04

L Number	Hits	Search Text	DB	Time stamp
1	136312	hierarch\$4 tree	USPAT; US-PGPUB; IBM TDB	2004/05/25 10:24
2	11898	(hierarch\$4 tree) same class\$7	USPAT; US-PGPUB; IBM TDB	2004/05/25 10:25
3	765	((hierarch\$4 tree) same class\$7) same imag\$4	USPAT; US-PGPUB; IBM TDB	2004/05/25 10:25
4	261	((((hierarch\$4 tree) same class\$7) same imag\$4) same object	USPAT; US-PGPUB; IBM TDB	2004/05/25 10:27
5	28	((((hierarch\$4 tree) same class\$7) same imag\$4) same object) same attribute	USPAT; US-PGPUB; IBM TDB	2004/05/25 10:28



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(hierarch* <or> tree)
<paragraph> class*
<paragraph> imag*
<paragraph> object*

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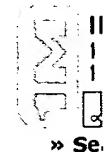
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JNL = Journal or Magazine **CNF** = Conference **STD** = Standard**1 Content-based indexing of multimedia databases***Jian-Kang Wu;*

Knowledge and Data Engineering, IEEE Transactions on , Volume: 9 , Issue: 6 , Nov.-Dec. 1997

Pages:978 - 989

[\[Abstract\]](#) [\[PDF Full-Text \(428 KB\)\]](#) **IEEE JNL****2 Attributed relational tree approach to signal classification***Fisher, M.H.; Ritchings, R.T.;*

Radar, Sonar and Navigation, IEE Proceedings - , Volume: 141 , Issue: 6 , Dec 1994

Pages:319 - 324

[\[Abstract\]](#) [\[PDF Full-Text \(368 KB\)\]](#) **IEE JNL****3 Using attribute trees to analyse auroral appearance over Canada***Syrjasuo, M.T.; Donovan, E.F.; Peura, M.;*

Applications of Computer Vision, 2002. (WACV 2002). Proceedings. Sixth IEEE Workshop on , 3-4 Dec. 2002

Pages:289 - 295

[\[Abstract\]](#) [\[PDF Full-Text \(728 KB\)\]](#) **IEEE CNF****4 A novel object-oriented approach to image analysis and retrieval***Metzler, V.; Aach, T.; Thies, C.;*

Image Analysis and Interpretation, 2002. Proceedings. Fifth IEEE Southwest Symposium on , 7-9 April 2002
Pages:14 - 18

[\[Abstract\]](#) [\[PDF Full-Text \(730 KB\)\]](#) [IEEE CNF](#)

5 Spatial statistical techniques for aggregating point objects extracted from high spatial resolution imagery

Nelson, T.; Niemann, K.O.; Wulder, M.;
Geoscience and Remote Sensing Symposium, 2001. IGARSS '01. IEEE 2001 International , Volume: 4 , 9-13 July 2001
Pages:1663 - 1665 vol.4

[\[Abstract\]](#) [\[PDF Full-Text \(683 KB\)\]](#) [IEEE CNF](#)

6 Image analysis by means of attribute trees-remote sensing applications

Peura, M.; Saltikoff, E.; Syrjasuo, M.;
Geoscience and Remote Sensing Symposium, 1999. IGARSS '99 Proceedings. 1999 International , Volume: 1 , 28 June-2 July 1999
Pages:696 - 698 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(224 KB\)\]](#) [IEEE CNF](#)

7 A particle system using CSG for description and visualization

Gareau, A.; Excoffier, T.; Tosan, E.;
Computer Animation '94., Proceedings of , 25-28 May 1994
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[\[Abstract\]](#) [\[PDF Full-Text \(712 KB\)\]](#) [IEEE CNF](#)

8 Object registration for visual inspection operations

Cesarini, F.; Marinai, S.; Soda, G.;
Industrial Electronics, Control and Instrumentation, 1994. IECON '94., 20th International Conference on , Volume: 2 , 5-9 Sept. 1994
Pages:988 - 993 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(552 KB\)\]](#) [IEEE CNF](#)

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pattern display system

----- KWIC -----

Detailed Description Text - DETX (33):

MapLayer is a class formed by modeling map information in a hierarchical structure, as shown in FIG. 14, and contains as its internal information the names and the collection of the types of graphic images to be drawn. With regard to the MapLayer, the item of Class Layer shown in FIG. 14 shows a hierarchical structure consisting of the class Object occupying the uppermost position, the class Model in the lower position, and the class MapLayer in the position below that of the Model. The class layers succeed to the functions of their upper-ranking class layers, as mentioned above. The class MapLayer has the function of map information formed into a hierarchical structure. Instance variables correspond to variables used in a program and express, by their

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**A novel object-oriented approach to image analysis retrieval**

Metzler, V. Aach, T. Thies, C.

Inst. for Signal Process., Med. Univ. of Lubeck, Germany;

This paper appears in: Image Analysis and Interpretation, 2002. Proceedings of the Fifth IEEE Southwest Symposium on

Meeting Date: 04/07/2002 - 04/09/2002

Publication Date: 7-9 April 2002

Location: Santa Fe, NM USA

On page(s): 14 - 18

Reference Cited: 7

Number of Pages: xi+296

Inspec Accession Number: 7328228

Abstract:

Common **image** processing tasks such as quantitative analysis, **classification** and **content-based retrieval** require content-based techniques to firstly detect visually perceptible **structures** that have a semantic interpretation for a specific observer in a certain **context** and secondly to describe their properties in a comprehensive way. To achieve these aims, we propose an **object-oriented** approach to **image** interpretation utilizing a morphological multiscale decomposition to transform an **image** into a **hierarchical structure** that represents **image objects** by their topological relations and descriptive **attributes**. The **object hierarchy** can be stored in a relational **image** archive and serves as interface to a rule-based expert system that either evaluates **image** objects directly or compares them with those of the stored **images**. Thus, both **image analysis** and **retrieval** can be realized by appropriate queries to the expert system. This approach has already been used successfully for quantitative analysis and **classification** of **biomedical** and **aerial images**.

Index Terms:content-based retrieval data structures expert systems image representation image analysis

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